

**NASH 2BE5  
Liquid Ring Vacuum Pumps and Compressors**



## NASH 2BE5: A Wide Application Range

The NASH 2BE5 was developed from the proven NASH 2BE3 and 2BE4 pumps, whose reliable performance has been further improved. The development focused on optimizing performance, higher vacuum capabilities and ease of maintenance.

Compared to the predecessor models, the NASH 2BE5 achieves higher suction capacity while using less energy. This naturally means a corresponding drop in the energy input required to achieve the same result – a defined suction volume at a certain vacuum level.



### Technical highlights

#### Split vacuum capability

With the addition of a center partition wall (or center shroud) in the pump body, each half of the NASH 2BE5 series can operate at different vacuum levels with differential pressures up to 338 mbar (10 in. Hg) between the two pump halves. The advantage of this is significant, because it allows the use of fewer vacuum pumps—which saves space and installation costs.

#### Quiet operation and easy maintenance

Despite their size and capacity, the NASH 2BE5 pumps are amazingly quiet during operation. Sound levels of 72 to 85 dBA (measured at a distance of 1 meter (3.3 ft) from the source) have been recorded for even the largest of the pump models. Internal inspections are easily performed without dismantling of the pump.

#### Robust, reliable and ready

Because the internal components rotate without making contact, liquid ring vacuum pumps are practically wear and maintenance free. The standard polyisoprene lining on the pump body resists aggressive process gases and liquids to provide exceptional corrosion resistance. The polyisoprene lining also consumes less energy than the equivalent unlined pump. For added corrosion resistance, stainless steel internal components are available in certain models.

#### Installation flexibility

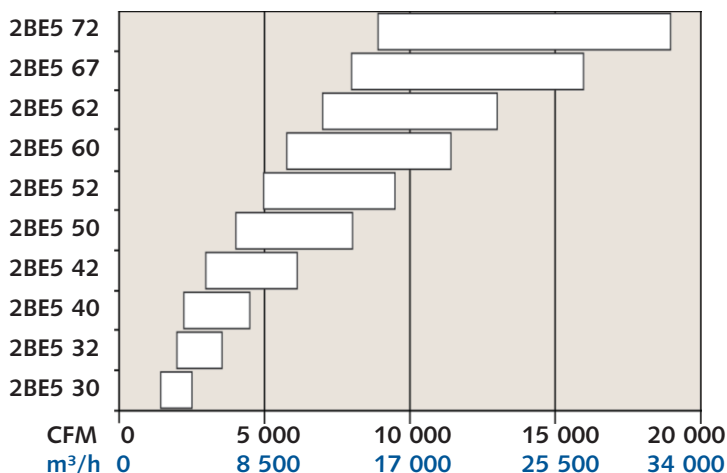
Due to the design of the pump heads, the NASH 2BE5 models offer many options for connecting both the inlet and discharge piping in order to simplify installation in both new facilities or existing facilities where headroom and space is limited.

#### Self-recirculation capability

The NASH 2BE5 models help minimize water consumption through their ability to internally recirculate seal water – without the need for circulating pumps or external controls. The design of the internals also allows the pump to draw water from an atmospheric tank without an external pumping source, eliminating the need for expensive pumps and control systems.

Features	Benefits
Increased efficiency	Energy savings
Higher vacuum levels	Optimized performance
Multiple inlet & discharge configurations	Piping flexibility
Polyisoprene lined body	Superior corrosion resistance
Self-recirculating capability (built in ECO-FLO technology)	Eliminates need for a pressurized external seal water source
Drop in replacement for 2BE3 and 2BE4 pumps	No site modifications needed
Removable bearing brackets	Easier maintenance
Bolted casing joints	Improved sealing
Large inspection ports	Easier internal inspections
100% performance tested prior to shipment	Trouble-free startup and operation
Backed by two year warranty and over 100 years of vacuum and compressed gas experience	Peace of mind

### Capacity Range



Basic specifications	
Vacuum range	to 160 mbar abs. / to 4.7 in Hg abs
Mechanical seals	Single, double (on request), stuffing box
Compressor pressure	> 2 bar abs. / 15 psig
Construction material	Ductile iron, stainless steel, combination of both materials

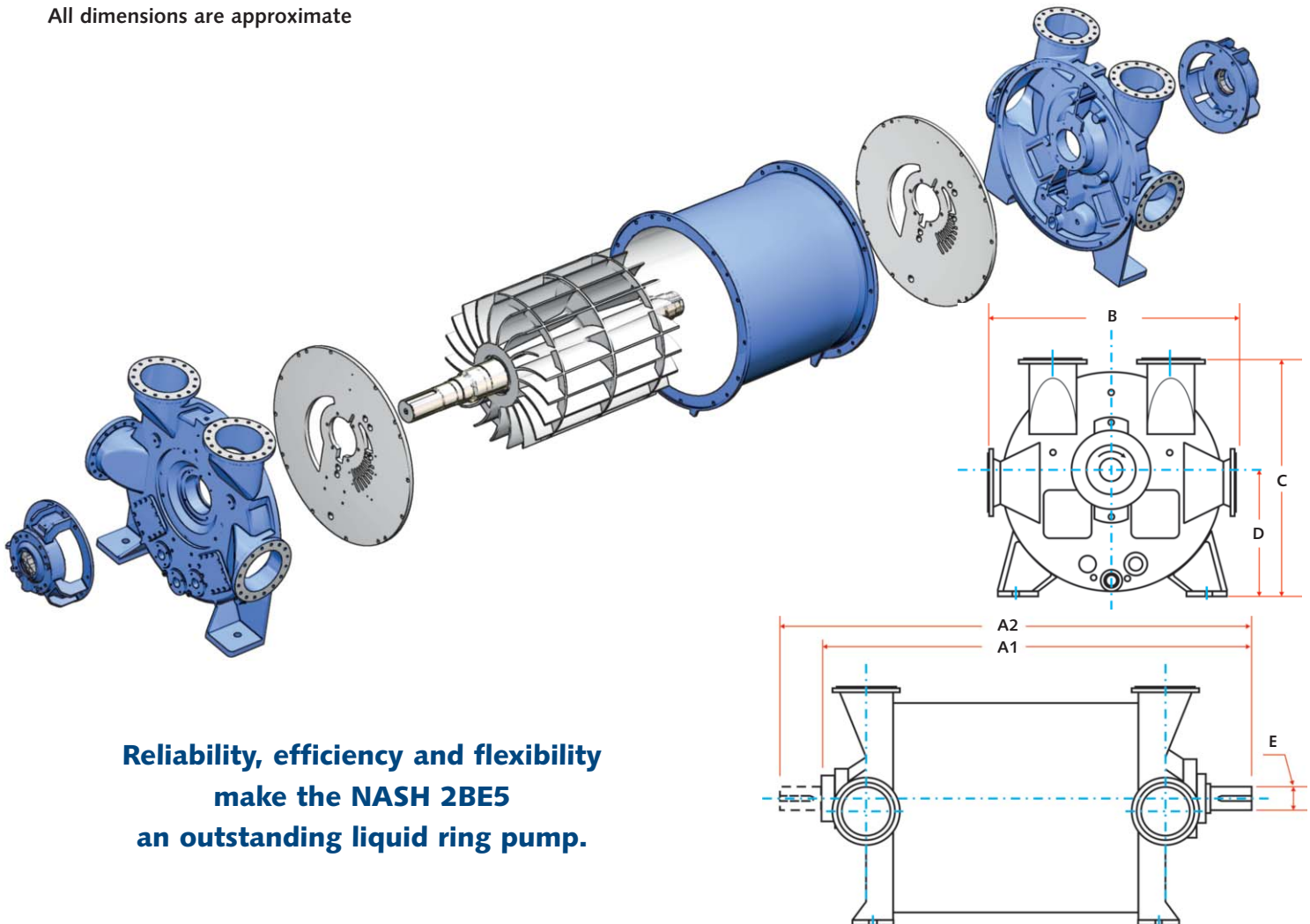
# NASH 2BE5: Reliability, Efficiency & Flexibility

## Dimensions

mm in blue

Pump Model	A1	A2	B	C	D	E	Suction Flange / Inlet	Discharge Flange / Outlet
2BE5 72	141 3585	155 3945	83 2095	80 2030	42 1060	7.9 200	16 in. FLG DN 400	16 in. FLG DN 400
2BE5 67	133 3390	148 3750	76 1915	75 1900	38 975	7.9 200	14 in. FLG DN 350	14 in. FLG DN 350
2BE5 62	123 3130	135 3440	70 1790	69 1760	35 900	7.1 180	14 in. FLG DN 350	14 in. FLG DN 350
2BE5 60	112 2835	124 3145	70 1790	69 1760	35 900	7.1 180	14 in. FLG DN 350	14 in. FLG DN 350
2BE5 52	112 2855	125 3165	61 1540	59 1490	31 775	6.3 160	12 in. FLG DN 300	12 in. FLG DN 300
2BE5 50	103 2605	115 2915	61 1540	59 1490	31 775	6.3 160	12 in. FLG DN 300	12 in. FLG DN 300
2BE5 42	94 2390	104 2650	51 1285	47 1195	24 620	5.1 130	10 in. FLG DN 250	10 in. FLG DN 250
2BE5 40	83 2100	93 2360	51 1285	47 1195	24 620	5.1 130	10 in. FLG DN 250	10 in. FLG DN 250
2BE5 32	75 1895	83 2110	38 970	37 935	19 475	4.3 110	6 in. FLG DN 150	6 in. FLG DN 150
2BE5 30	65 1660	74 1875	38 970	37 935	19 475	4.3 110	6 in. FLG DN 150	6 in. FLG DN 150

All dimensions are approximate



**Reliability, efficiency and flexibility  
make the NASH 2BE5  
an outstanding liquid ring pump.**

## Other NASH Products

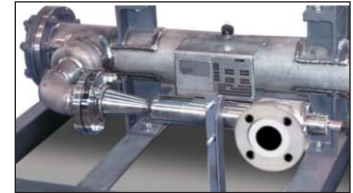
### TC/TCM

Integral 2 stage liquid ring pumps with improved performance at vacuum levels down to 0.8" HgA (27 mbar)  
Designed to handle large amounts of liquid carryover without difficulty  
Capacity of 100 to 2,240 CFM with vacuum to 0.8" HgA  
Capacity of 170 to 3,740 m<sup>3</sup>/h with vacuum to 27 mbar abs



### Steam Jet Ejectors

Sizes range from one-inch (25mm) to 78-inch (2 meters) inlets  
Capacities range from 20 to 20,000 CFM  
Capacities range from 34 to 34,000 m<sup>3</sup>/h  
Multi-stage system pressures as low as 0.001 mm HgA



### Service

We have the know-how, the expertise and the specialists. We provide professional service to make your pumps run for decades. Our service centers are located in:

- Australia
- Brazil
- China
- Germany
- India
- Netherlands
- Saudi Arabia
- Singapore
- South Africa
- Sweden
- UK
- USA



### Vectra

Liquid ring vacuum pumps and compressors  
Available in feature rich budget designs (SX, XL or GL)  
Designed to handle high back pressure requirements  
Capacity of 20 to 4,000 CFM with vacuum to 29+ HgV  
Capacity of 34 to 6,796 m<sup>3</sup>/h with vacuum to 33 mbar abs



### Compressors

Wide range of liquid ring compressors designed for many applications. Rugged and reliable, they can handle highly toxic, explosive and corrosive gases  
Specifically developed for applications such as flare-gas, Chlorine and Vinyl Chloride Monomer (VCM) recovery  
Capacity of 60 to 2,200 SCFM with pressure to 200 PSIG  
Capacity of 100 to 3,740 m<sup>3</sup>/h with pressure to 15 bar abs  
Single and two stage models available



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